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Notice of Allowability	Application No. Applicant(s)			
	09/661,666	QIAO ET AL.		
	Examiner	Art Unit		
	Thanhha Pham	2813		
The MAILING DATE of this communication app ars on th cover sheet with the correspond nce address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.				
1. X This communication is responsive to <u>05/17/04</u> .				
2. 🔀 The allowed claim(s) is/are <u>1-5,7-12,14-16,34 and 35</u> .				
3. \boxtimes The drawings filed on <u>01 September 2000</u> are accepted by	the Examiner.			
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements		
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give				
 6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the deposit of the deposit o	on's Patent Drawing Review A Amendment / Comment or 84(c)) should be written on the header according to 37 CF sit of BIOLOGICAL MATE	in the Office action of e drawings in the front (not the back) of R 1.121(d). ERIAL must be submitted. Note the		
Attachm nt(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	6. ☐ Interview St Paper No./ 8), 7. ☐ Examiner's	formal Patent Application (PTO-152) Immary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowance		

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Allowable Subject Matter

1. Claims 1-5, 7-12, 14-16, and 34-35 are allowed.

- 2. The following is an examiner's statement of reasons for allowance: It is not obvious for those skilled in the art to suggest the claimed method for forming a semiconductor device comprising: etching a fist portion of a dielectric layer formed on a semiconductor topography with a first etch chemistry wherein the first etch chemistry is substantially free of hydrogen and comprises C4F8; etching a second portion of the dielectric layer with a second etch chemistry different form the first etch chemistry wherein the first and second etch chemistries are selective to silicon nitride wherein the second etch chemistry has a dielectric material: silicon oxide selectivity of at least approximate 5:1 and wherein the dielectric material comprises the dielectric material; and changing gases supplies to an etch chamber comprising the semiconductor topography between the steps of etching form those producing the first etch chemistry to those producing the second etch chemistry such that gases of the first etch chemistry are present in negligible quantities during the step of etching the second portion of the dielectric layer as characteristics in claim 1.
- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanhha Pham whose telephone number is (571) 272-

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1696. The examiner can normally be reached on Monday and Thursday 9:00AM -

9:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Carl Whitehead can be reached on (571) 272-1702. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Thanhha Pham

Chandra Chaudhari

C. Chaudhari

Primary Examiner